

STUDENT ID NO								

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2018/2019

DCS5018 - COMPUTER SYSTEMS & APPLICATIONS

(For Diploma students only)

17 OCTOBER 2018 9:00 a.m. – 11:00 a.m. (2 Hours)

INSTRUCTIONS TO STUDENT

- 1. This question paper consists of 5 pages excluding cover page.
- 2. Answer ALL questions in Section A on the OMR sheet.
- 3. Answer ALL questions in Section B in the Answer Booklet.

Section A: 20 Multiple Choice Questions (20 marks)

Instruction: Shade your answers on the OMR sheet.

- 1. Which of the following is the result of data processing?
 - A. Data

C. Information

B. Input

D. Output

- 2. Which of the following is **NOT** an example of application software?
 - A. Adobe Photoshop

C. Linux

B. Audicity

D. Gmail

- 3. Who are the individuals that are involved in the development of the internet?
 - A. Nikola Tesla & Samuel Morse
 - B. Vinton Cerf & Robert Kahn
 - C. Rudolf Diesel & Humphry Davy
 - D. Herman Hollerith & Henry Bessemer
- 4. Below shows a URL for a video on YouTube.com. Identify the component of the URL that marked (i).

(i)
https://www.youtube.com/watch?v=CE-JlvmnRtY

A. Path

C. Top-level domain

B. Domain name

D. Protocol

5. Which of the following **BEST** describe the below statement?

"Vendor hosts the software online and user access and use the software over the internet without having to install it on user's computer."

- A. Off-the-shelf software
- B. Software as a Service
- C. System software
- D. Specialized software
- 6. Which of the following is/are the guidelines in producing a good presentation?
 - I. Use images
 - II. Use appropriate colours
 - III. Use bullet for key points
 - IV. Keep animation and background audio to the maximum

A. I & II

C. I, II, III

B. II & III

D. All of the above

Continued...

7.	What is the type of operating system used for machinery and that requires minimal						
		interaction?	_	*			
		Real time	C.				
	В.	Cloud-based	D.	Distributed			
8.	EXC	Below are the actions that can be taken when facing error during the boot process, EXCEPT:					
	A. Refresh the computer						
	B. Install different software while keeping the same existing software						
	C. Boot with Last Known Good Configuration option D. Uninstall recently installed software						
	D. Omnstan recently instance software						
9.	What are the things that need to be considered in order to have an ideal computing device?						
	I. Speed						
	111.	CPU capacity System components					
		Hard drive storage capacity					
		and and observe outputty					
		I & II		II, III, IV			
	B.	III & IV	D.	All of the above			
10.		store data as tiny pits the	at are	burned into the disc by a high-speed			
	A. Optical discs, optical light						
		Optical discs, laser					
	C. S	olid-state drives, optical light					
	D. S	olid-state drives, laser					
11	Netw	ork architecture can be classified a	ccord	ing to:			
11.	I.	The distance between their node		ing to:			
	II. The way in which they are managed (or administered).						
	III. The set of rules (or protocol) used to exchange data between network nodes.						
	IV. The communications medium used to transport the data.						
	Α.	I & II	C.	II, III, IV			
	В.	I, II, III	D.	All of the above			
	_,	-,,					
12.		pelow standard define wireless com					
	A .	IEEE 802.3	C.	IEEE 802.15			
	В.	IEEE 802.11	D.	IEEE 802.16			
13	13. Which of the following statement is TRUE ?						
10.	A. 3G brought mobile device data-transfer rates as high as 3.8 Mbps.						
	B. 4G can provide mobile connection speeds of up to 4.8 Mbps						
	C.	· · · · · · · · · · · · · · · · · · ·					
	D. 4G LTE has better data-transfer rates than true 4G.						

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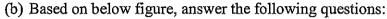
14.	. Most	common format that used within	digita	ıl photography are		
	I.	Raw Uncompressed Data (RAV	V).			
	II.	Windows Media Audio (WMA).			
	III.	MPEG Layer III (MP3).				
	IV.		up (J]	PEG).		
	A.	I, and II only.	C.	II, III, and IV		
	B.	I, and IV	D.	All of above.		
15.	·	changes its own code or peri	odica	lly rewrites itself to avoid detection.		
	A.	Polymorphic virus	C.	Stealth virus Worm		
	B.	Multipartite virus	D.	Worm		
16.	is bei	ing bombarded with data requests	is kno	respond to legitimate users because it own as attack.		
		Scareware		Denial-of-service		
	B.	Stealth	D.	Time bomb		
17.	A sec	cond-generation language (2GL) is	s also	known as		
	A.	Database Query Language Assembly language	C.	Machine language		
	В.	Assembly language	D.	Web development language		
18.		ose to insert a comment in a progra				
A. To translate the program code to assembly language						
	B. To connect the code with database.					
		C. To accelerate the compilation of code				
	D.	To explain the purpose of section	code			
19.		siness intelligence systems, TPS i				
	A.	Transaction Purchase System	C.	Transaction Processing System		
	B.	Transport Tunnel System	D.	Tunneling Private System		
20.	Whic	h of below option is NOT a m	ain o	peration of a Database Management		
	Syste	ems.				
	A.	Sorting Data	C.	Extracting Data		
	B.	Outputting data	D.	Interjection Data		

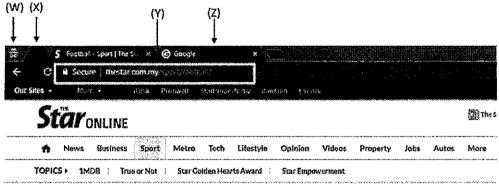
Section B: 4 Structured Questions (80 marks)

Instruction: Write your answers in the Answer Booklet.

Question 1 (Total: 20 Marks)

(a) Give FIVE (5) examples of input devices and output devices. (5 marks)





Football

5 Jul 2018 | 11:45 AM

Palace goalkeepers Hennessey, Speroni sign new contracts (Reuters) - Goalkeepers Wayne Hennessey and Julian Speroni have signed new contracts at Crystal Palace, the Premier League club has said.



- i. Explain what is a web browser.
- ii. What can a graphical browser display?
- iii. Identify (W), (X), (Y), (Z).

- (2 marks)
- (4 marks)
- (4 marks)
- (c) Explain what is an open source software and list down **THREE** (3) examples of open source software. (5 marks)

Question 2 (Total: 20 Marks)

- (a) System software is one of the essential component in order to run a computer. Based on this statement, answer the following questions:
 - i. State TWO (2) basic types of system software (2 marks)
 - ii. Based on question (i), explain each type of system software. (2 marks)
 - iii. Give **TWO** (2) example for each system software. (4 marks)
- (b) The boot process is a process of starting a turned off computer. List down the steps in boot process and briefly explain each step. (8 marks)
- (c) There are many different types of hard drive. State **FOUR** (4) characteristics of Mechanical Hard Drive (4 marks)

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NHK/SNK/RA 4/5

Question 3 (Total: 20 Marks)

- (a) Describe any **THREE** (3) type of Network Architecture which defined by distance? (6 marks)
- (b) When you speak into a cell phone, a series of steps occur. Describe **THREE** (3) steps of this process. (6 marks)
- (c) Najwa is planning to create a strong password for her online banking login. Give FOUR (4) comments on the password given below. (8 marks)

22Pen@22me

Question 4 (Total: 20 Marks)

- (a) List the SIX (6) steps in Software Development Life Cycle (SDLC). (6 marks)
- (b) What are the tools required to build an Android device application? (6 marks)
- (c) Describe any TWO (2) of the database main components. (4 marks)
- (d) List out FOUR (4) criteria of a good primary key in a database. (4 marks)

